

REMARKS

INTRODUCTION:

In accordance with the foregoing, claims 16, 30, 49, 51 and 52 have been amended. No new matter is being presented, and approval and entry are respectfully requested.

Claims 16-26 and 29-53 are pending and under consideration. Reconsideration is requested.

REQUEST FOR ACKNOWLEDGEMENT:

On page 1 of the Office Action, the Examiner has not acknowledged receipt of the certified copy of Korean Patent Application No. 2001-47535, which was filed on March 3, 2004. As such, it is respectfully requested that the Examiner acknowledge this item.

OBJECTIONS TO THE CLAIMS:

In the Office Action at page 2, the Examiner objects to claims 49-52 as depending from claim 1, which has been cancelled. Claims 49 and 51 have been amended. As such, it is respectfully requested that the Examiner reconsider and withdraw the objection.

REJECTION UNDER 35 U.S.C. §102:

In the Office Action at page 2, the Examiner rejects claims 16-26, 30, 31, 33, and 35 under 35 U.S.C. §102 in view of Miyoshi et al. (U.S. Patent No. 4,520,341). This rejection is respectfully traversed and reconsideration is requested.

Even assuming arguendo that the Examiner's construction of Miyoshi et al., it is respectfully submitted that Miyoshi et al. does not disclose the invention as recited in claims 16 and 30 for at least similar to the reason the Examiner acknowledges that Miyoshi et al. does not disclose or suggest the invention recited in claim 29.

Additionally, Miyoshi et al. does not suggest that, if gas passes through the membrane

4, any moisture remains in the gas since the membrane 4 is designed to absorb any moisture in the gas in order to provide an accurate reading. (Col. 2, lines 55-68). As such, it is respectfully submitted that Miyoshi et al. does not disclose or suggest, among other features, “a non-conductive layer of the non-conductive material to form the bottom of the gap and which extends between sidewalls of the first and second electrodes” and “the liquid is deposited on said board so as to vary a resistance between said first and second electrodes” as recited in claim 19.

Lastly, while Miyoshi et al. depends on the change in impedance due to the absorption of moisture by the membrane 4, Miyoshi et al. does not suggest that the impedance between the conductive members 2 varies additionally based on gas disposed between the membrane 4 and the substrate 1, or that the impedance varies based on positions and or a size areas of the conductive members 2 exposed to the gas in the gap. As such, it is respectfully submitted that Miyoshi et al. does not disclose or suggest “an amount of resistance between said first and second electrodes across the gap corresponds to cross sectional areas of the side walls exposed to the gas in the gap” as recited in claim 22.

For similar reasons, it is respectfully submitted that Miyoshi et al. does not disclose or suggest the invention recited in claim 24.

Claims 17-18, 20-21, 23, 25, 26, 31, 33, and 35 are deemed patentable due at least to their depending from corresponding claims 16 and 30.

STATUS OF CLAIMS NOT REJECTED IN OFFICE ACTION

On pages 2-3 of the Office Action, the Examiner allows claims 29, 32, 36-48, and 53, and objects to claim 34 as depending from a rejected claim.

CONCLUSION:

In accordance with the foregoing, it is respectfully submitted that all outstanding objections and rejections have been overcome and/or rendered moot. And further, that all

pending claims patentably distinguish over the prior art. Thus, there being no further outstanding objections or rejections, the application is submitted as being in condition for allowance which action is earnestly solicited.

If the Examiner has any remaining issues to be addressed, it is believed that prosecution can be expedited and possibly concluded by the Examiner contacting the undersigned attorney for a telephone interview to discuss any such remaining issues.

If there are any additional fees associated with the filing of this Response, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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